534575-2-11KE AID:258164 | 17/07/2020

The average number of memory accesses of the Unsorted-Optimized array structure of:

a)Step 1of 2:

Assuming all operations on the data set are equally probable.:

When all operations equally probable Unsorted-Optimized Array is the fast than others. Its average memory accesses of 0.75n + 1.5.

Step 2of 2:

From part (b) of the previous exercise, n= 1000000 then average memory accesses is 750001.5



b) ) step 1of 1:

Assuming only Insert operations will be performed on the data set.

The average number of memory accesses of the Unsorted-Optimized array structure of insertion operation is 3.

* No loops,
* 3 memory accesses,
* O(1)